



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/economy

Energy Labs, Inc.
9651 Airway Road, Ste. E
San Diego, CA 92154

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Air Handling Unit

APPROVAL DOCUMENT: Drawing No. NL-0028, titled "Air Handling Equipment", sheets 1 through 7 of 7, prepared by Luis R. Lomas, P.E., dated 04/13/2014, last revision #A, signed and sealed by Luis R. Lomas, P.E., on 10/23/2014, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Tijuana, Baja California, Mexico and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above. The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.



Helmy A. Makar
12/04/2014

NOA No. 14-0616.04
Expiration Date: 12/04/2019
Approval Date: 12/04/2014
Page 1

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
A	AS REQUESTED PER MIAMI-DADE	9/23/14	<i>[Signature]</i>

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE HVHZ FLORIDA BUILDING CODE 2010 EDITION
2. CONCRETE STRUCTURE TO BE DESIGNED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. CONCRETE STRUCTURE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
4. ALL FASTENERS TO BE CORROSION RESISTANT.
5. RIGID FOAM INSULATION THERMAL AND ACOUSTICAL PROPERTIES MEET 3 POUND DENSITY RATING. DUAL DENSITY ASSEMBLY MEETS EROSION REQUIREMENTS OF UL 181 FACING AIRSTREAM AND FIRE HAZARD CLASSIFICATION OF 25/50 (PER ASTM E 84 AND UL 723).
6. STANDARD INNER CASING PANELS ARE SOLID 0.040" ALUMINUM (MIN) WHICH MAY BE USED IN ANY COMBINATION AS REQUIRED THROUGHOUT AIR HANDLER UNIT CASING.
7. STANDARD OUTER CASING PANELS ARE SOLID 0.050" ALUMINUM (MIN) WHICH MAY BE USED IN ANY COMBINATION AS REQUIRED THROUGHOUT AIR HANDLER UNIT CASING.
8. OUTER ANGLES ARE 5 1/2" X 5 1/2". INNER ANGLES ARE 1 1/2" X 1 1/2".
9. CONNECT OUTSIDE WALL TO BASE FRAME USING 7/8" X 1 3/8" 14GA GALVANIZED ANGLE.
10. CONNECT INSIDE WALL TO BASE FRAME USING 2" X 3" 14GA GALVANIZED ANGLE
11. ALL JOINTS OF STRUCTURAL STEEL MEMBERS ARE CONTINUOUSLY ARC WELDED.
12. UNIT BASE AND CROSS MEMBERS ARE FULLY WELDED TO STRUCTURAL C-CHANNEL. CROSS MEMBERS ARE LOCATED 24" MAX O.C.
13. FLOOR PANELS ARE 14GA GALVANIZED STEEL BRIGHT, MAXIMUM FLOOR PANEL WIDTH IS 24".
14. ANCHORING OF BASE TO BUILDING IS NOT PART OF THIS APPROVAL AND IT IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.

TABLE OF CONTENTS

SHEET NO.	DESCRIPTION
1	NOTES
2	PANEL ASSEMBLY
3 - 4	BASE CONSTRUCTION
5	DOOR DETAIL
6	CHANNEL DETAIL
7	B.O.M.

Approved as complying with the
Florida Building Code
Date 12/04/2014
NOA# 14-0616-02
Miami Dade Product Control

By *[Signature]*

ENERGY LABS INC

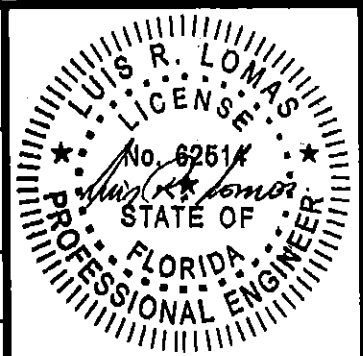
9651 AIRWAY ROAD, STE E
SAN DIEGO, CALIFORNIA 92154

AIR HANDLING EQUIPMENT

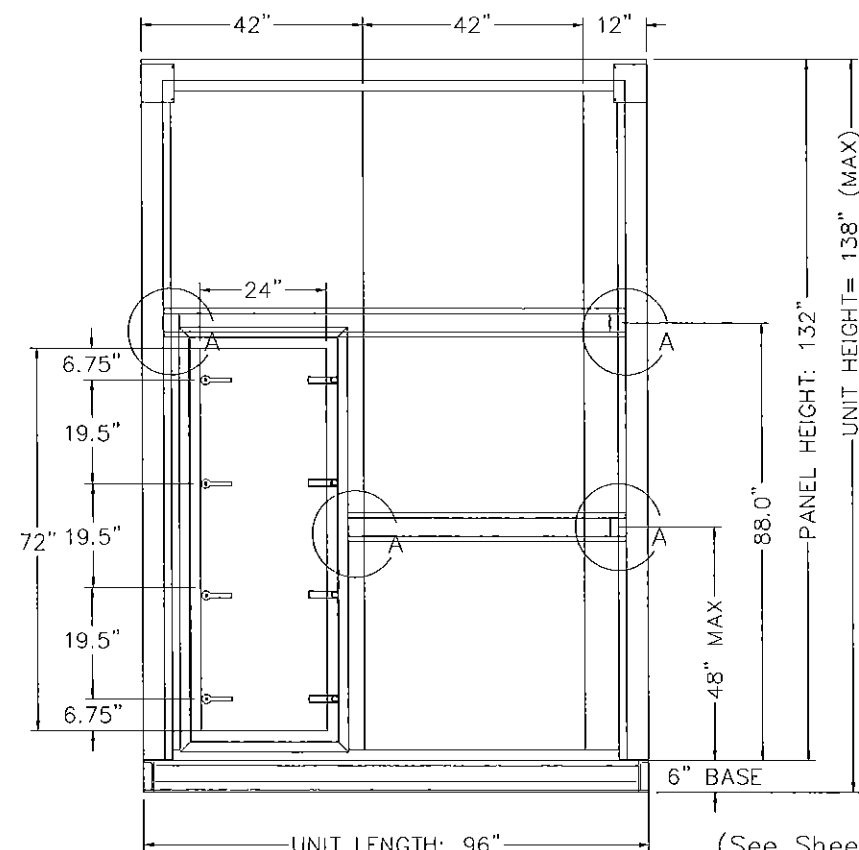
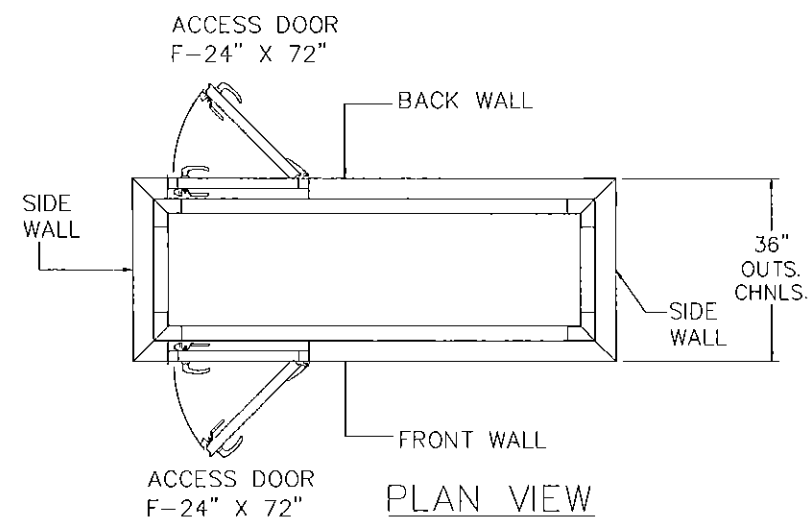
NOTES

DRAWN: JRM	DWG NO. NL-0028	REV A
SCALE NTS	DATE 04/13/2014	SHEET 1 OF 7

SIGNED: 10/23/2014



ROOF SLOPE
APPROX. 1/8" PER FT.

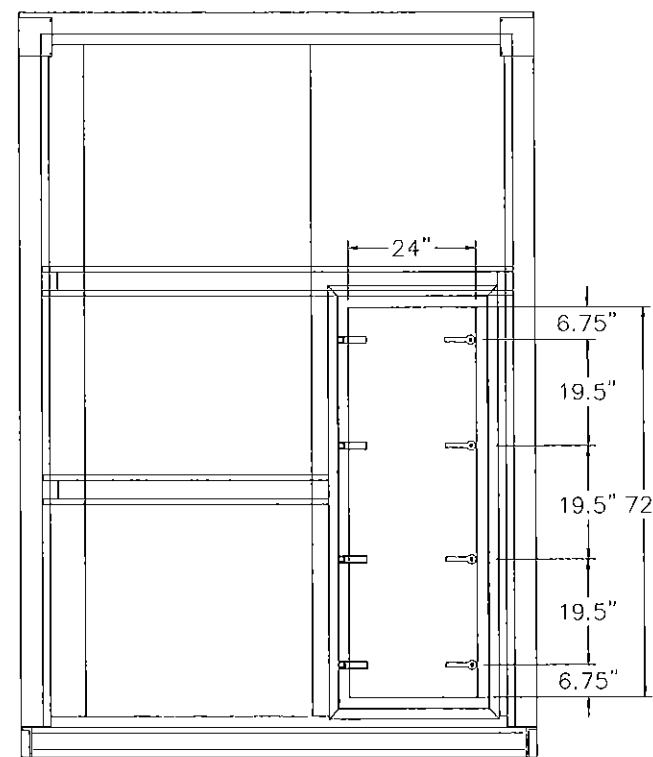


**FRONT WALL
ELEVATION**

AIR HANDLING ASSEMBLY

WALL PANEL RATING	
DESIGN PRESSURE RATING	IMPACT RATING
±100.0PSF	LARGE AND SMALL MISSILE IMPACT

ROOF PANEL RATING	
DESIGN PRESSURE RATING	IMPACT RATING
±50.0PSF	LARGE AND SMALL MISSILE IMPACT



BACK WALL ELEVATION

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	AS REQUESTED PER MIAMI-DADE	9/23/14	<i>LRD</i>

APPROVED MAX. SIZE FOR PANELS	
EXTERIOR LINER .050" ALUMINUM	INTERIOR LINER .040" ALUMINUM
42"x132" 12"x132"	42"x132" 12"x132"
FASTENERS	
PANELS SEAMS SECURED WITH 1/4"-14 x 1" SELF DRILL SCREW PLATED EVERY 6" O/C MAX. OUTSIDE THE UNIT	
PANELS SEAMS SECURED WITH 1/4"-14 x 1" SELF DRILL SCREW PLATED EVERY 8" O/C MAX. INSIDE THE UNIT	
UNIT BASE	
FULLY WELDED C6X8.2 STRUCTURAL STEEL PERIMETER BASE WITH INTERMEDIATE TUBULAR AND CROSS SUPPORT AT 24" O.C. 4" THICK INSULATION FOAM. (FOR REFERENCE SEE SHT. 4 of 7)	
UNIT FLOORS	
INNER FLOOR IS 14 GA. GALVANIZED STEEL BRT. OUTER FLOOR IS 20 GA. GALVANIZED STEEL BRIGHT.	
UNIT FRAME WORK	
14 GA G-90 PAINTED GALVANIZED STEEL HORIZONTAL SUPPORTS LOCATED 48" MAX O.C.	
ACCESS DOORS (24"x72")	
0.060" MIN. ALUMINUM (OUTER) 0.050" MIN. ALUMINUM (INNER)	
HARDWARE: ADJUSTABLE NON-CORROSIVE LATCHES	

SIGNED: 10/23/2014

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Florida Building Code
Date 12/10/2014
NOA# 14-0616-04
Miami Dade Product Control
By Heidi A. Miller

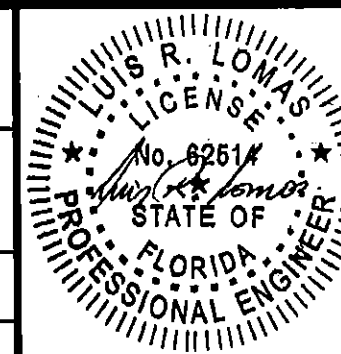
ENERGY LABS INC

9651 AIRWAY ROAD, STE. E
SAN DIEGO, CALIFORNIA 92154

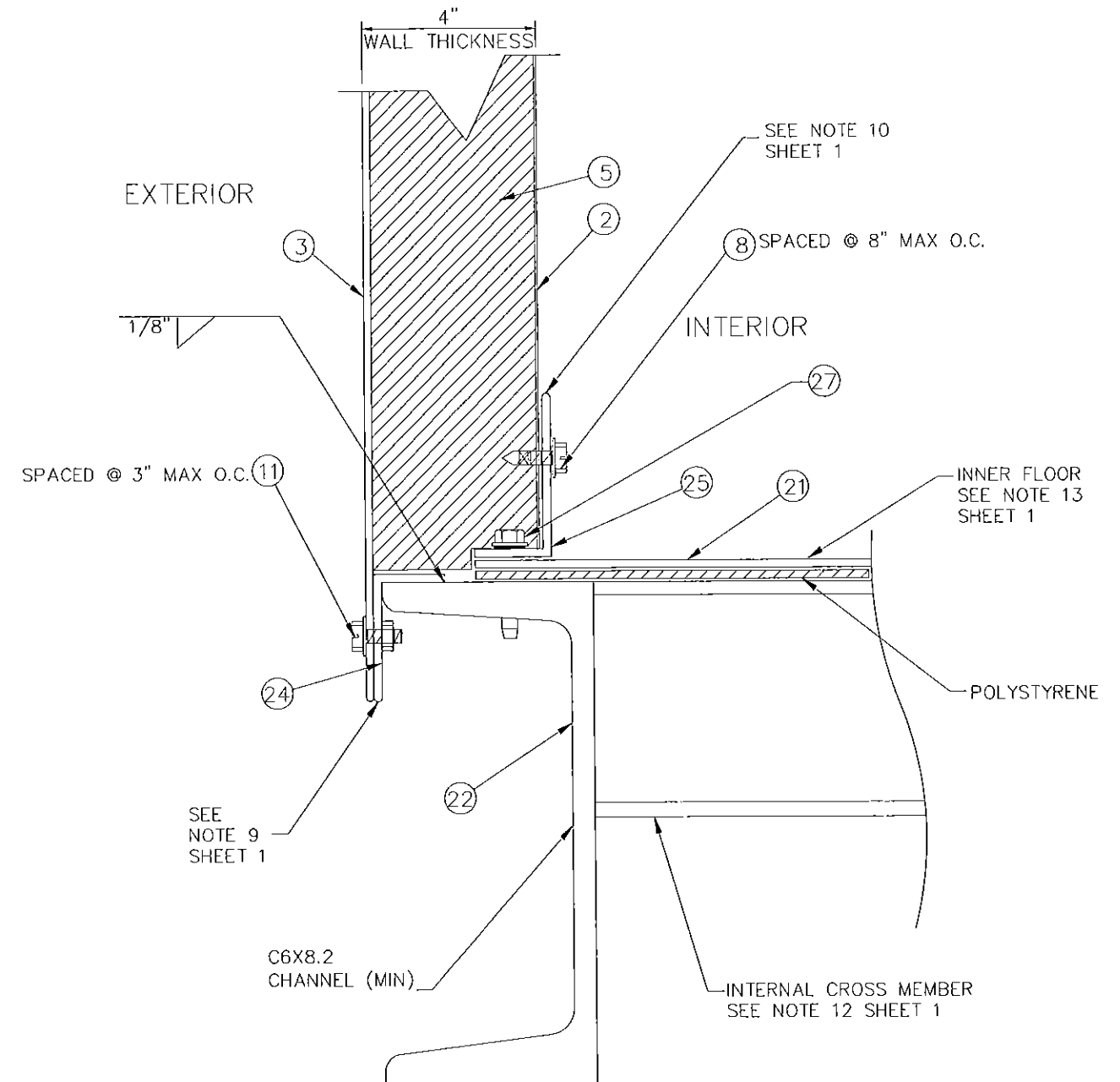
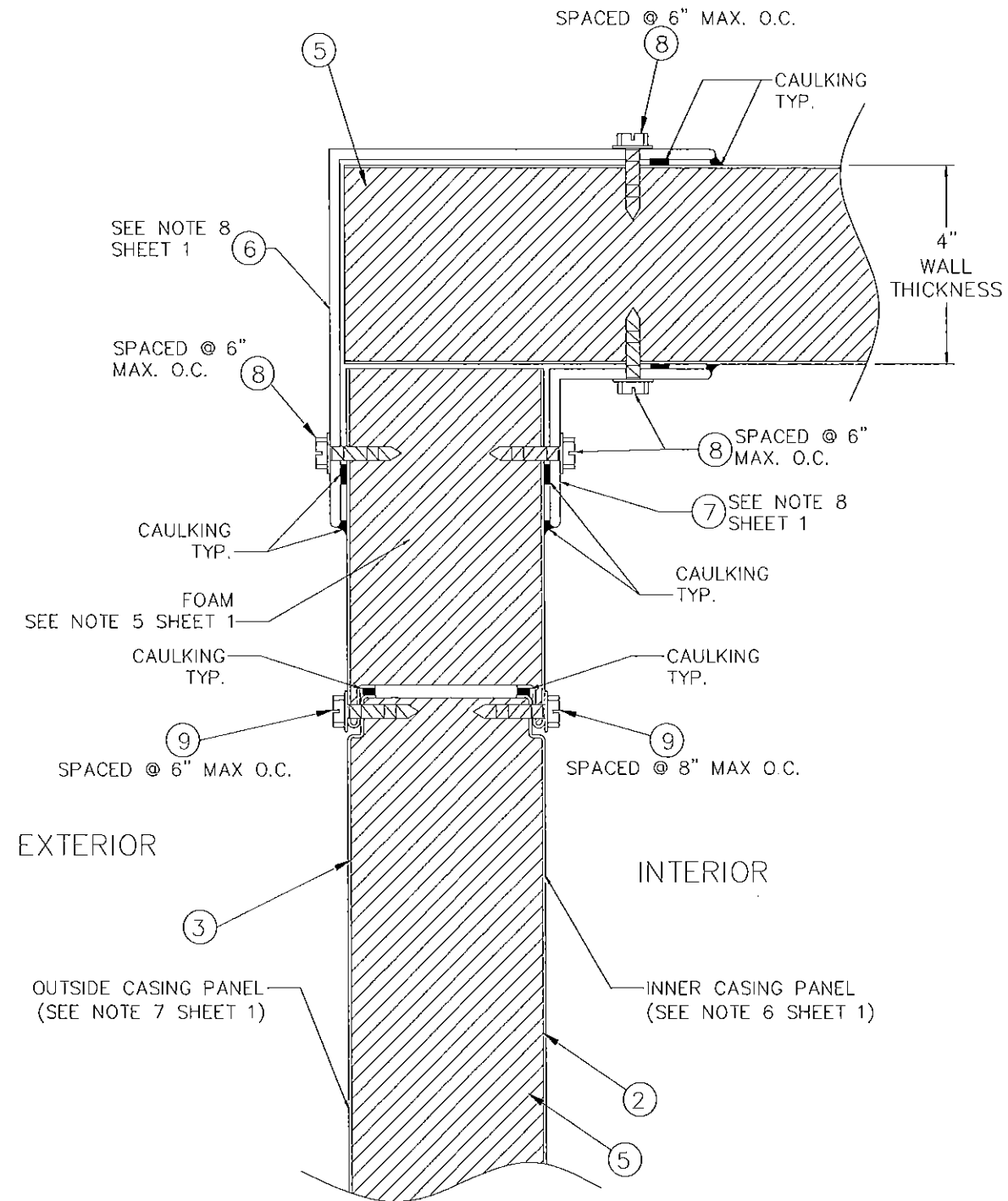
AIR HANDLING EQUIPMENT

PANEL ASSEMBLY

DRAWN: JRM	DWG NO. NL-0028	REV A
SCALE NTS	DATE 04/13/2014	SHEET 2 OF 7



REVISIONS			
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Miami Dade Product Control

By *Healy A. Miller*

ENERGY LABS INC

9651 AIRWAY ROAD, STE. E
SAN DIEGO, CALIFORNIA 92154

AIR HANDLING EQUIPMENT

BASE CONSTRUCTION

DRAWN:
JRM

DWG NO.

NL-0028

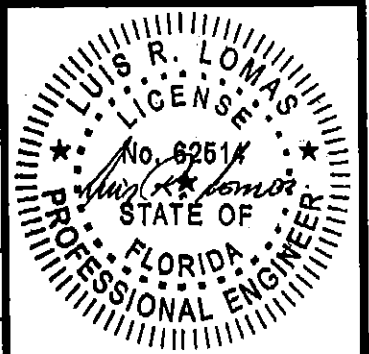
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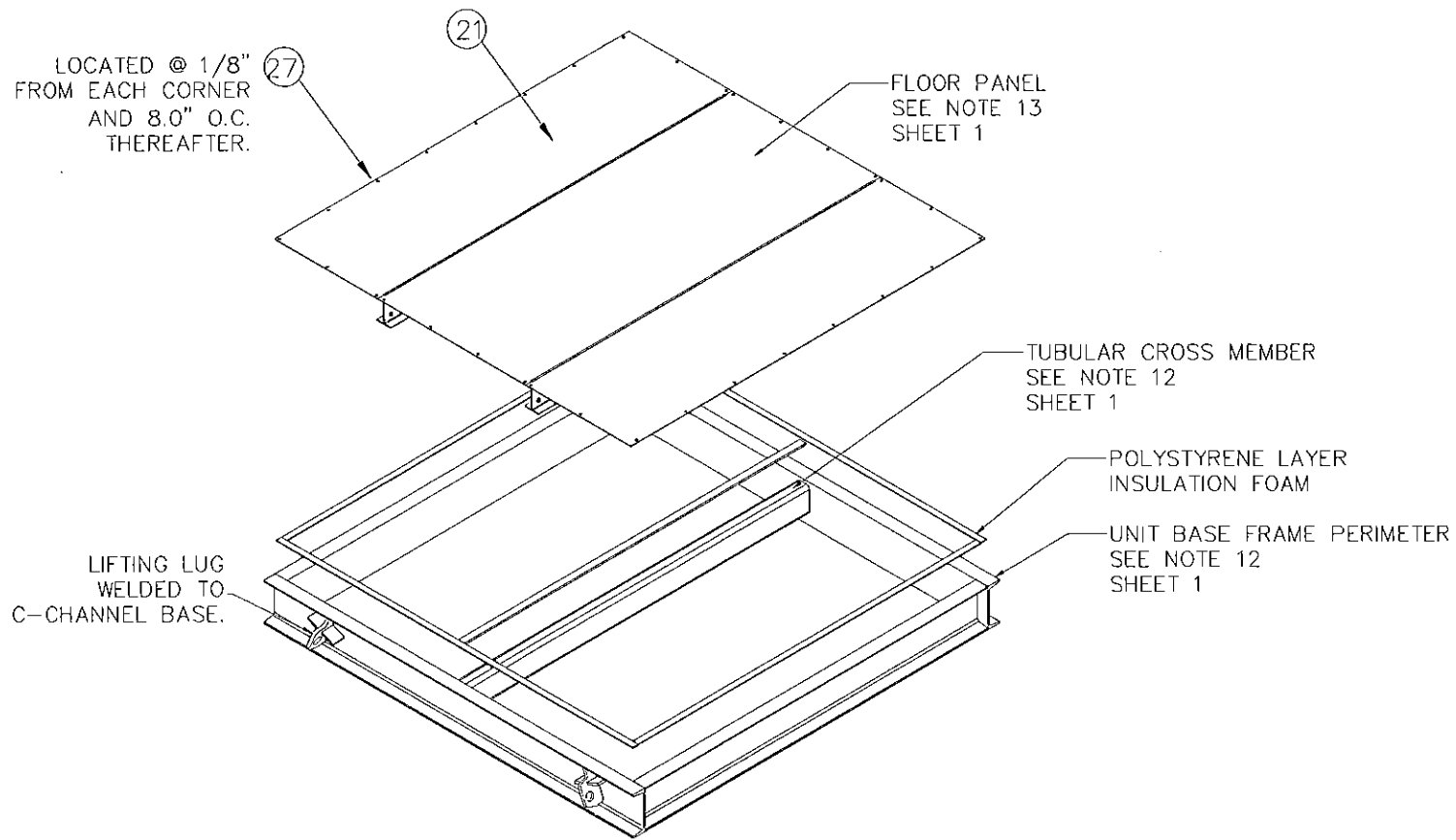
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DATE 04/13/2014

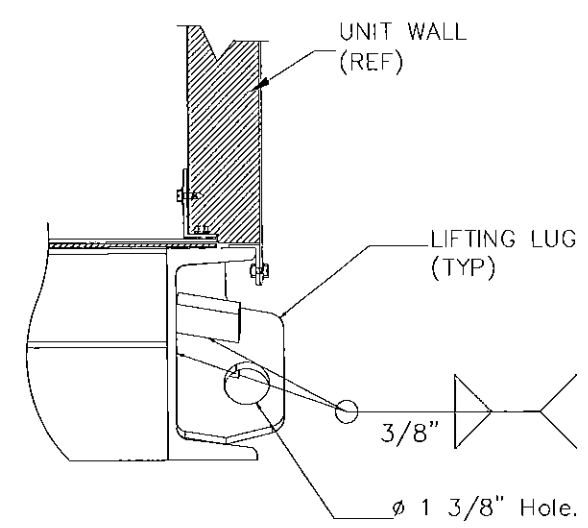
SHEET 3 OF 7

SIGNED: 10/23/2014

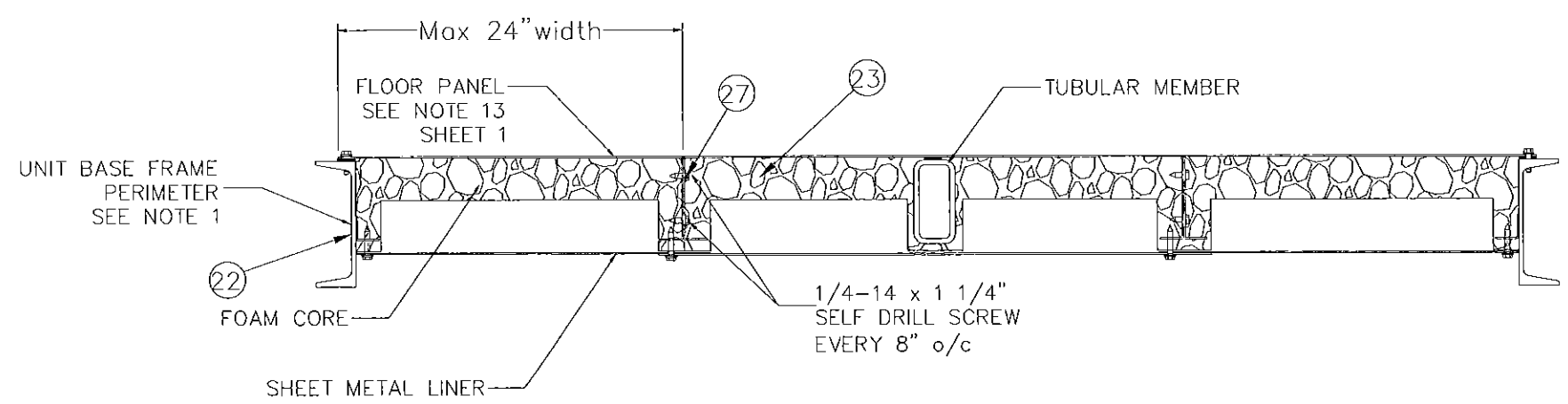




REVISIONS			
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TYPICAL LIFTING LUG



BASE CROSS SECTION

SIGNED: 10/23/2014

Approved as complying with the Florida Building Code Date <u>12/04/2014</u> NOA# <u>14-0616-04</u> Miami Dade Product Control By <i>[Signature]</i>	ENERGY LABS INC 9651 AIRWAY ROAD, STE. E SAN DIEGO, CALIFORNIA 92154		
	AIR HANDLING EQUIPMENT		
	BASE CONSTRUCTION		
	DRAWN: JRM	DWG NO. NL-0028	REV A
SCALE NTS	DATE 04/13/2014	SHEET 4 OF 7	

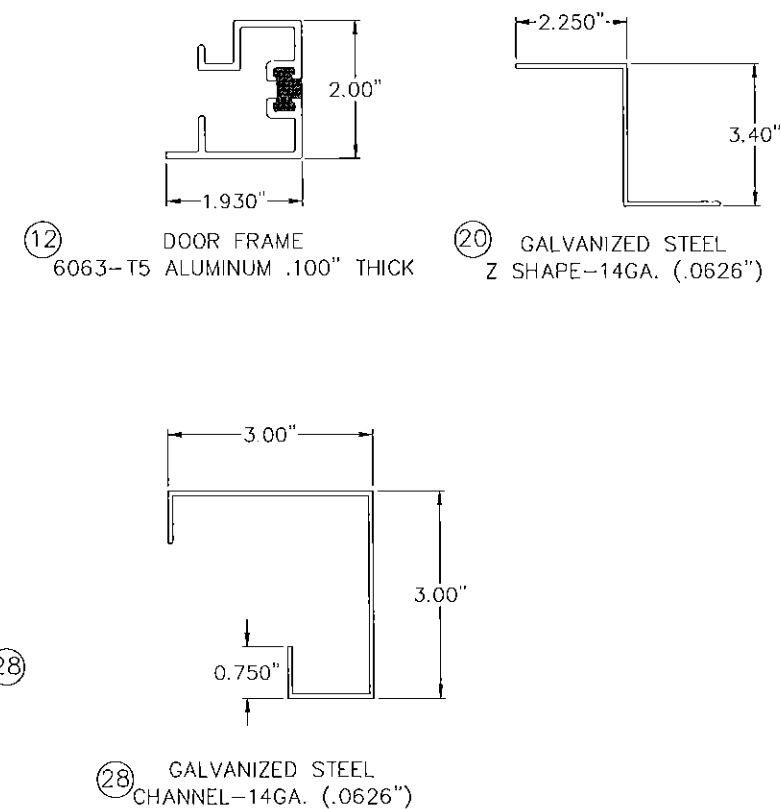
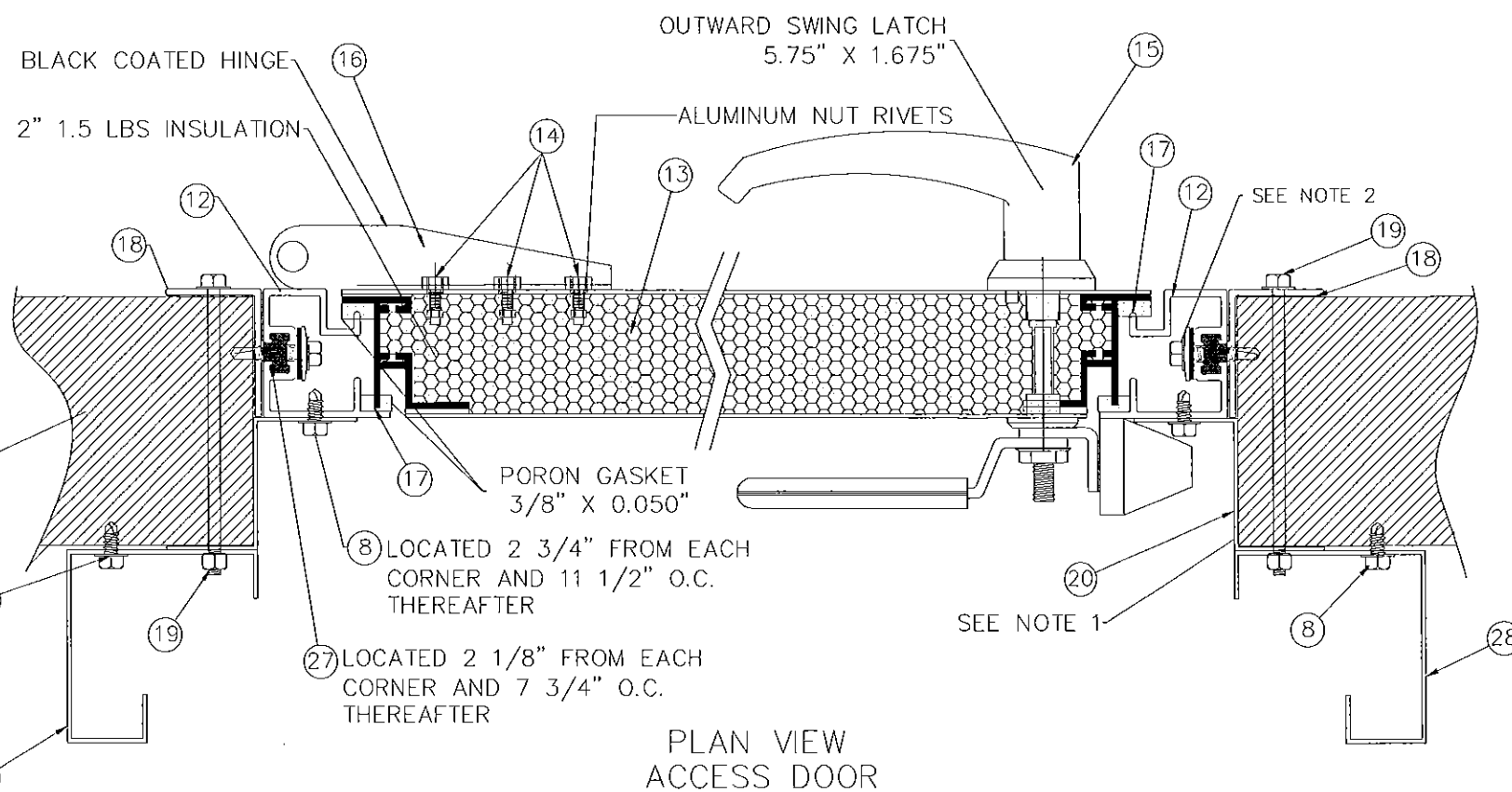
(4) #8 SCREWS
(2) EACH SIDE
OF FRAME
CORNER

REINFORCEMENT ANGLES (3 1/8" X 3 1/8")

EXTRUDED ALUMINUM
FRAME

FRONT VIEW
ACCESS DOOR

REVISIONS			
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NOTES:

- 1.- USE VERTICAL BRACE ON DOOR OPENING, ATTACH BRACE AT BOTTOM TO FLOOR AND AT TOP TO HORIZONTAL HAT CHANNEL.
- 2.- USE 1/4-14x 1 1/4" SELF DRILL SCREW (P/N 75-SCWH-14-114) AND 1/4" NEOPRENE WASHER (P/N 75-W-14-BN1458) TO ATTACH DOOR FRAME TO SIDE WALL PANEL.

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Miami Dade Product Control

By *[Signature]*

ENERGY LABS INC

9651 AIRWAY ROAD, STE. E
SAN DIEGO, CALIFORNIA 92154

AIR HANDLING EQUIPMENT

DOOR DETAIL

DRAWN:
JRM

DWG NO.

NL-0028

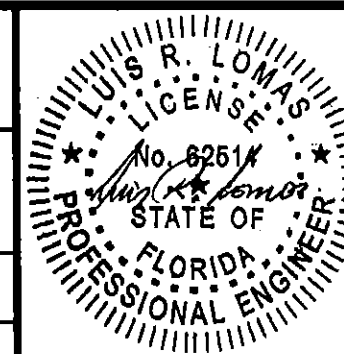
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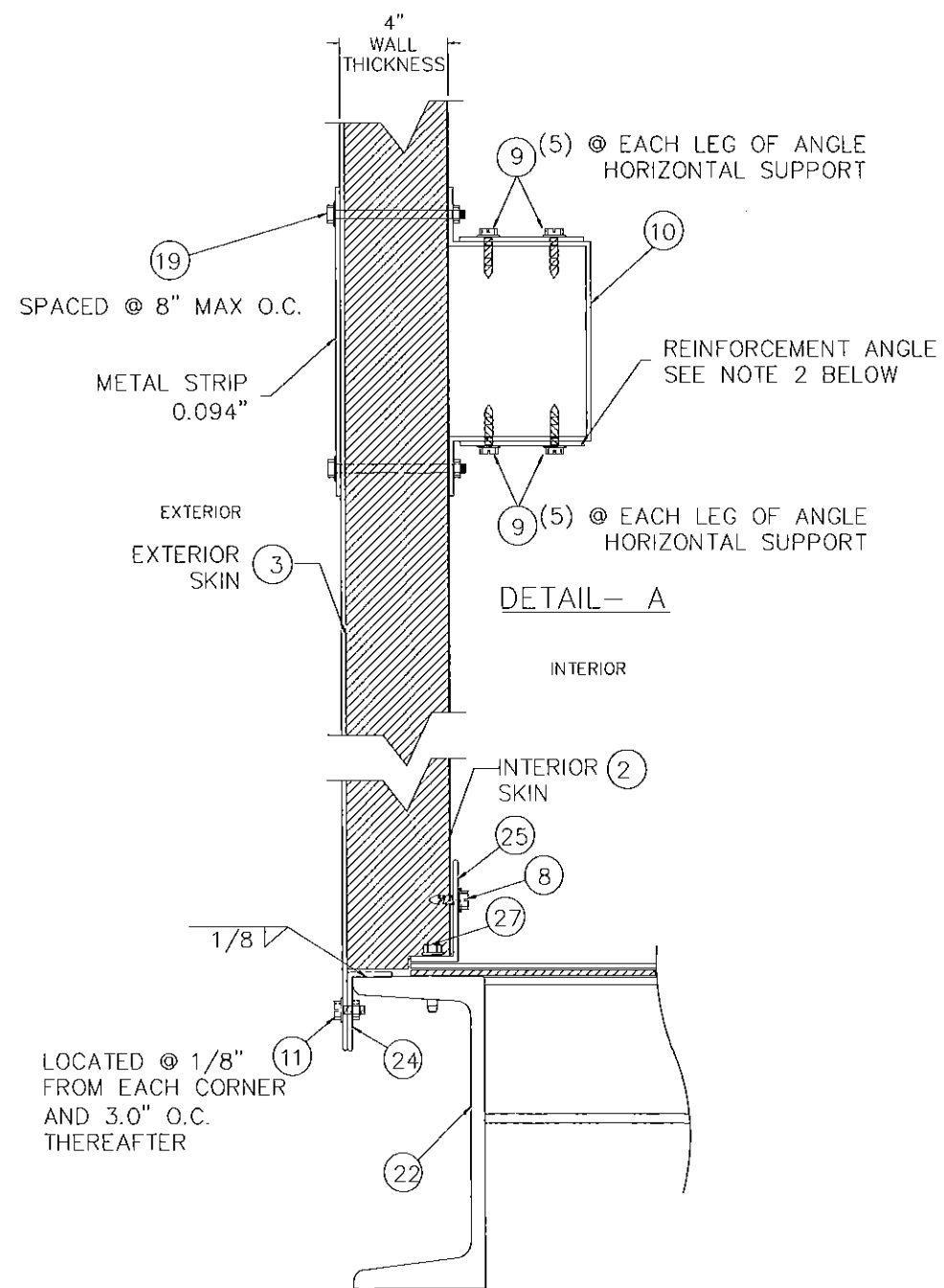
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DATE 04/13/2014

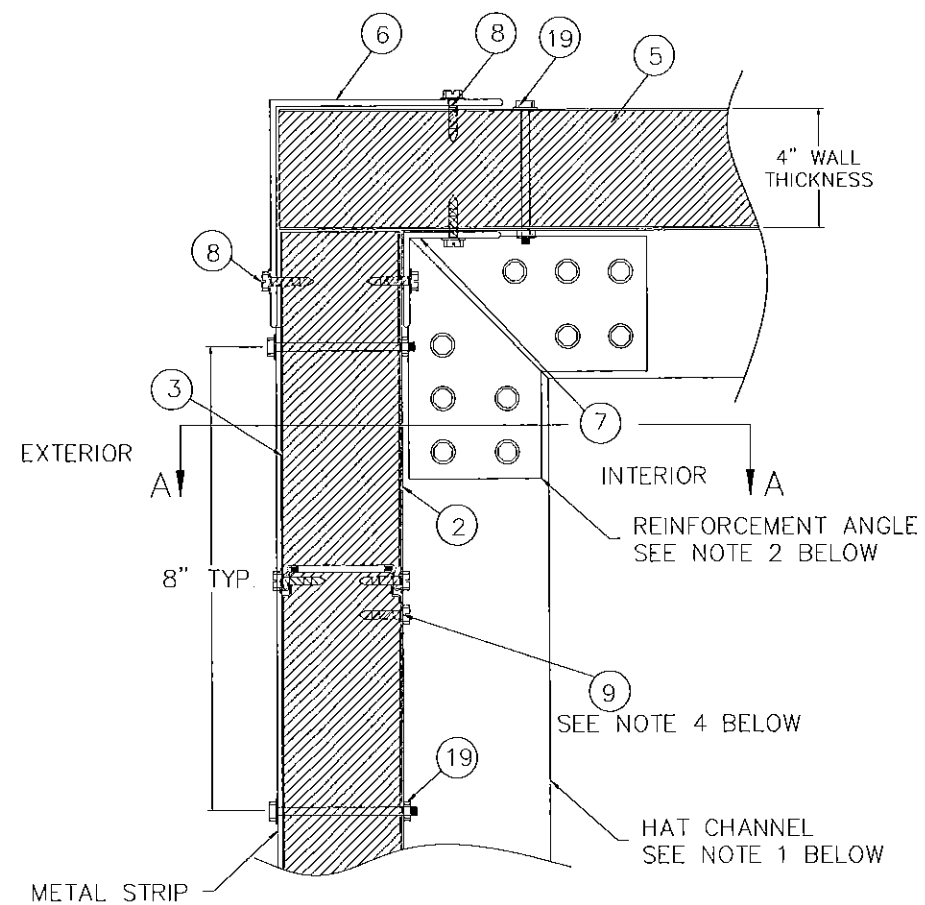
SHEET 5 OF 7

SIGNED: 10/23/2014





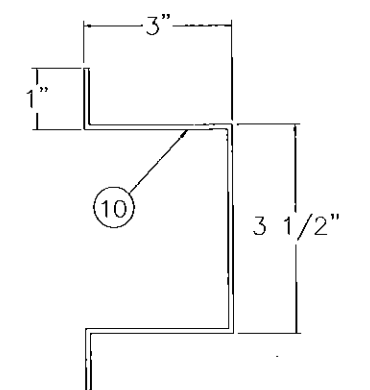
SECTION A-A



WALL CORNER DETAILS
AT HAT CHANNEL
LOCATION

NOTES:

1. HAT CHANNEL MATERIAL 12GA GALV. BRT.
2. LOCATE REINFORCEMENT ANGLE ON TOP AND BOTTOM OF HAT CHANNEL AT EACH CORNER.
3. ATTACH HAT CHANNEL TO FOAM PANEL USING ITEM #19.
4. AN ADDITIONAL SCREW, ITEM #9, SECURES HAT CHANNEL TO INTERIOR ALUMINUM SKIN AT EACH PANEL SEAM AND 6.0" O.C.



HAT CHANNEL DIMENSIONS

REVISIONS			
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Miami Dade Product Control
By *[Signature]*

ENERGY LABS INC

9651 AIRWAY ROAD, STE. E
SAN DIEGO, CALIFORNIA 92154

AIR HANDLING EQUIPMENT

HAT CHANNEL DETAIL

DRAWN:
JRM

DWG NO.

NL-0028

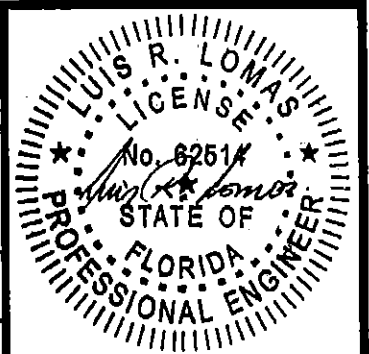
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SCALE NTS

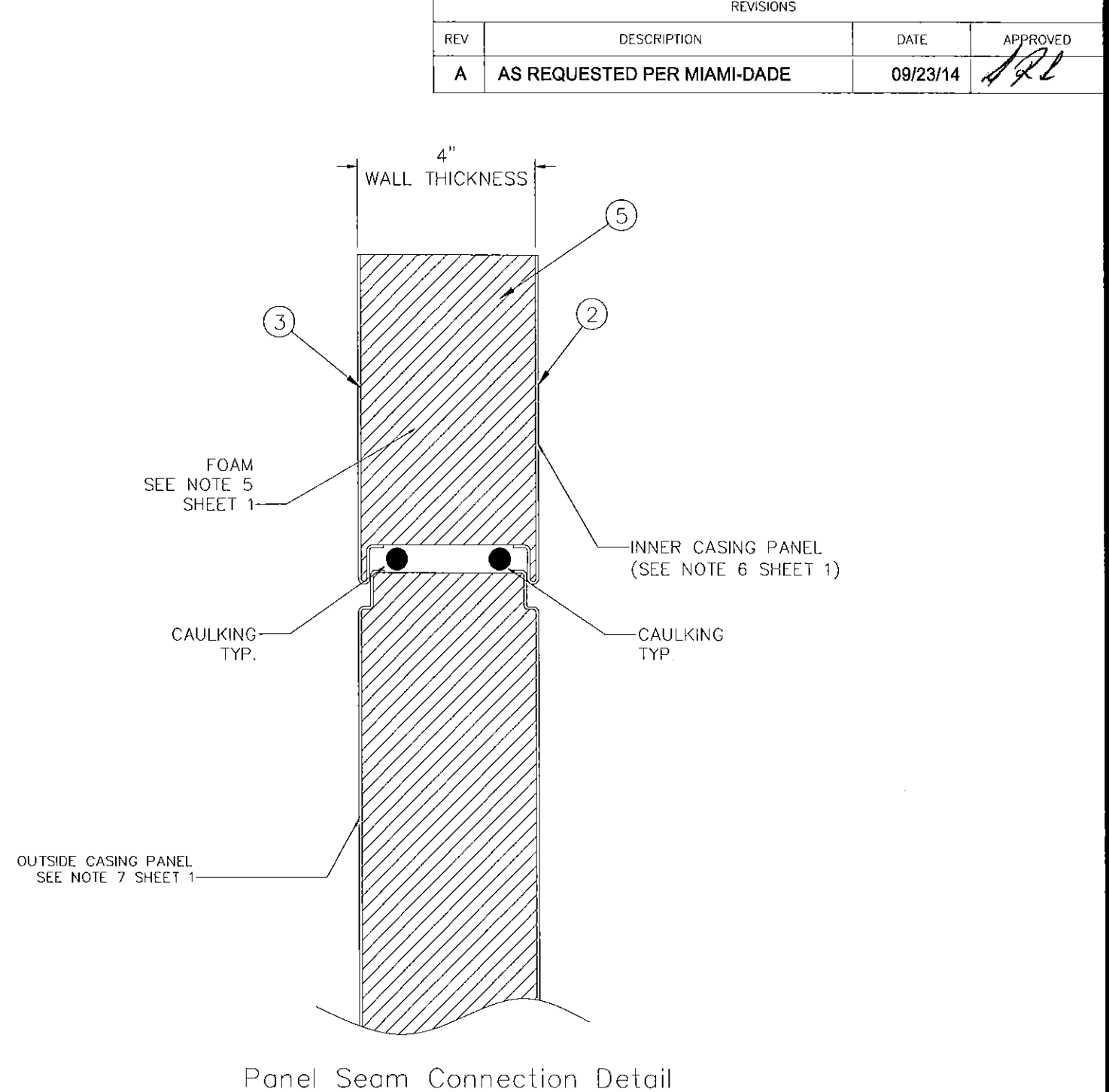
DATE 04/13/2014

SHEET 6 OF 7

SIGNED: 10/23/2014



BILL OF MATERIALS		
ITEM #	DESCRIPTION	MANUFACTURER
1	ASSEMBLY	ENERGY LABS
2	PANEL, 42" x 132" - 0.050" EXT/0.040" INT.- 3003 ALUMINUM	ENERGY LABS
3	PANEL, 42" x 132" - 0.050" EXT/0.040" INT.- 3003 ALUMINUM	ENERGY LABS
4	PANEL, 12" x 132" - 0.050" EXT/0.040" INT.- 3003 ALUMINUM	ENERGY LABS
5	4" RIGID FOAM INSULATION- 3lb DENSITY, R= 28.4	R-MAX
6	14 GAUGE GALV. STEEL ANGLE (G-90)- 5-1/2" x 5-1/2" (Outer)	ENERGY LABS
7	14 GAUGE GALV. STEEL ANGLE (G-90)- 1-1/2" x 1-1/2" (Inner)	ENERGY LABS
8	1/4" x 14-3/4" SELF DRILL SCREW	DUNCAN BOLT COMPANY
9	1/4" x 14-1" SELF DRILL SCREW	DUNCAN BOLT COMPANY
10	12 GAUGE GALVANIZED HAT CHANNEL (G-90)- 3-1/2" x 3" x 1"	ENERGY LABS
11	1/4"-20 x 1/2" BOLT AND 1/4"-20 NUT	DUNCAN BOLT COMPANY
12	EXTRUDED ALUMINUM DOOR FRAME	FRONTIER ALUMINUM
13	2" FIBERGLASS INSULATION PNL. DOOR 24" X 72" 0.060" EXT/INT 3003 AL.	ENERGY LABS
14	ALUMINUM RIVET NUTS	PURCHASE
15	OUTWARD SWING LATCH	EMKA INC.
16	BLACK COATED DOOR HINGE	HUMANETICS
17	PORON GASKET	ENLIGHTEN-U
18	14 GAUGE G-90 GALVANIZED STEEL DOOR ANGLE- 2.0" X 1.50"	ENERGY LABS
19	1/4"-20 x 5" BOLT & 1/4"-20 NUT	DUNCAN BOLT COMPANY
20	14 GAUGE G-90 GALVANIZED STEEL "Z" SHAPE-3.40" X 2.250"	ENERGY LABS
21	14 GAUGE GALVANIZED STEEL BRIGHT FLOOR PANEL	ENERGY LABS
22	C-6" STRUCTURAL "C-CHANNEL" STEEL BASE	ENERGY LABS
23	2" RIGID FOAM INSULATION- 3lb DENSITY, R= 28.4	R-MAX
24	7/8" x 1-3/8" 14 GAUGE STEEL ANGLE	ENERGY LABS
25	2" x 3" 14 GAUGE STEEL ANGLE	ENERGY LABS
26	DOOR BACKING-0.063" ALUMINUM	FRONTIER ALUMINUM
27	1/4" x 14-1-1/4" SELF DRILL SCREW	DUNCAN BOLT COMPANY
28	14 GAUGE G-90 GALVANIZED STEEL CHANNEL-3.0" X 3.0"	ENERGY LABS



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By

ENERGY LABS INC

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SAN DIEGO, CALIFORNIA 92154

AIR HANDLING EQUIPMENT

BILL OF MATERIALS

DRAWN:
JRM

SCALE NTS

DWG NO.
NL-0028

DATE 04/13/2014

REV
A

SHEET 7 OF 7

SIGNED: 10/23/2014

LUIS R. LOMAS

LICENS. E.S.

No. 62514

STATE OF

FLORIDA

PROFESSIONAL ENGINEER